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Miscellaneous notes on Palaeotropical Lepidoptera

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Abstract: Miscellaneous notes on Palaeotropical Lepidoptera. *Misc. Pap*. 214: 1-6.
In this paper, some issues on the Palaeotropical Lepidoptera are commented. Information on the working conditions during the pandemic in Turkey and the status of the Cesa Collection after the flood disaster in 2019 are given. Additionally three nomenclatural cases are evaluated: *Torbenlarsenia* (Hesperiidae), *Alexanderiana* (Notodontidae) and *Catarctia walkeri* (Notodontidae) are proposed as replacement names.

Key words: Nomenclature, Hesperiidae, Notodontidae, Lepidoptera, Palaeotropical, Africa, Asia.

There is so much work to be done in this area that even the next centuries are not enough in terms of time. The number of scientists working actively and efficiently in this field is very small. Science contributors should work with mutual understanding and sincere support; they should avoid prejudices and unfounded disinformation about some oppositional persons. It should not be forgotten that dissenting views are needed to find the truth. However, the negative effects of ruthless competition and egoism are currently very serious.

Nomenclaturally, Koçak (2013: 3) once again felt the need to remind and said: "*...all the scientists, interested in the taxonomy, must read and follow all the necessary articles of the ICZN. If they intend to propose a new name, they must control their names about the homonymy before publishing*". In addition, authors should be more careful when making a dedication. There are many scientific names in the literature of Lepidoptera that have been attributed to other scientists. A significant portion of these names is junior synonym today. In other words, they have lost their

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We hope that this very troubled process, we are experiencing due to the coronavirus pandemic, is over as soon as possible by using the scientific methods not by praying, if it is natural.
We wish most of us to return to our happy and healthy days again.

original value.[2] Among them, a new taxon in the African Hesperiidae established (Chiba *et al.*,

[2] Following examples of the family Notodontidae from the Old World, are extracted from our database (*cf.* Schintlmeister, 2013; Schintlmeister & Witt, 2015). Junior synonyms (underlined) under the related valid taxa (bold) have been dedicated to important persons:
Acmeshachia gigantea (Elwes,1890) gigantea Elwes,1890; takamukui Matsumura,1929
Afrogluphisia Kiriakoff,1970 Breyeria Janse,1920 nec Borre,1875; Afrogluphisia Kiriakoff,1970; Eubreyeria D.S.Fletcher,1980
Allodonta (Hexafrenum) Matsumura,1925 Hexafrenum Matsumura,1925; Corinella Kiriakoff,1967; Allodontina Kiriakoff,1974; Kiriakoffia Nakamura,1974
Allodonta (Hexafrenum) leucodera (Staudinger,1887) leucodera Staudinger,1887; elongata Oberthür,1911; yunnana Kiriakoff,1964; yamamotoi Nakamura,1978
Antheua mixta Janse,1920 mixta Janse,1920; radiata Aurivillius,1921; aurivilliusi Kiriakoff,1964
Antheua vittata (Walker,1855) vittata Walker,1855; karschi Strand,1912
Antiphalera armata Yang,1995 armata Yang,1995; philippoi Schintlmeister,1997
Archigargetta Kiriakoff,1967 Archigargetta Kiriakoff,1967; Roepkeella Kiriakoff,1968
Bireta (Cutuza) straminea (Moore,1877) straminea Moore,1877; southerlandii Holland,1889; harakiri Bryk,1942
Cerurella Kiriakoff,1962 Cerurella Kiriakoff,1962; Oreocerura Kiriakoff,1963; Dasychiriella Kiriakoff,1970; Riebeeckia Kiriakoff,1981
Desmeocraera albicans Gaede,1928 albicans Gaede,1928; cipricianii Berio,1937
Desmeocraera decorata (Wichgraf,1922) decorata Wichgraf,1922 ; neavei Tams,1925; lithocolla Tams,1932
Desmeocraera latex (Druce,1901) latex Druce,1901; atriguttata Hampson,1910; denisae Kiriakoff,1954; uniformis Kiriakoff,1958
Desmeocraera platti Janse,1920 platti Janse,1920; varia Janse,1920 nec Wlk.; jansei Kiriakoff,1958; kenyae Kiriakoff,1958 [ssp.]
Disparia (Lanna) nigrofasciata (Wileman,1910) nigrofasciata Wileman,1910; wilemani Matsumura,1925
Drymonia dodonaea ([Denis & Schiffermüller],1775) #dodonaea [Denis & Schiffermüller],1775; trimacula Esper,[1785]; lunata De Villers,1789; poltwaskii Schintlmeister,1981; wageneri De Freina,1981
Drymonia querna (Fabricius,1787) #querna [Denis & Schiffermüller],1775; querna Fabricius,1787; sausalica Daniel,1968; meridioitalica Hartig,1970; danieli Hartig,1970
Eutimia marpissa Wallengren,1858 marpissa Wallengren,1858; spurcata Walker,1865; smithii Holland,1897; anodonta Hampson,1910
Fentonia Butler,1881 Fentonia Butler,1881; Urocampa Staudinger,1892; Neoshachia Matsumura,1925; Hoplotina Gaede,1930; Subwilemanus Kiriakoff,1964
Furcula interrupta (Christoph,1867) interrupta Christoph,1867; leucotera Stichel,1911; sureyae Rebel,1933; hoeferi Bytinski-Salz,1936; leucotera Lenek,1969; #syreyae Schintlmeister,1989.
Macrurocampa dorothea Dyar,1896 dorothea Dyar,1896; miranda Dyar,1905; frisoni Barnes & Benjamin,1927
Megashachia fulgurifera (Walker,1858) fulgurifera Walker,1858; takamukuana Matsumura,1929.
Notocerura spiritalis (Distant,1899) spiritalis Distant,1899; swierstrae Distant,1902
Notodonta dromedarius (Linnaeus,1767) dromedarius Linnaeus,1767; dromedarulus Haworth,1803; zeba Donovan,1807; perfusca Stephens,1828; frigida Rangnow,1932; westfalica Brandt,1936; schintlmeisteri Witt,1980; cleui P.Leraut,2006
Notodonta tritophus ([Denis & Schiffermüller],1775) #tritophus [Denis & Schiffermüller],1775; phoebe Siebert,1790; perfuscus Haworth,1803; plagiata Walker,1865; magnifica Rangnow,1935; irfana De Freina,1983.
Notodonta ziczac ziczac (Linnaeus,1758) ziczac Linnaeus,1758; venosa Fourcroy,1785; monticola Dannehl,1925; lapponica Rangnow,1935; dimorpha Rangnow,1935; reisseri Rungs,1956
Ochrocalliope grandidieranum (Viette,1954) grandidieranum Viette,1954; viettei Kiriakoff,1958
Paracyphanta kurokoi Sugi,1994 kurokoi Sugi,1994; sugii Orhant,1996
Peridea aliena (Staudinger,1892) aliena Staudinger,1892; nitobei Matsumura,1909
Peridea anceps (Goeze,1781) anceps Goeze,1781; trepida Esper,1786; serrata Thunberg,1792; tremula Hübner,[1800]; baetica Zerny,1927; agenjoi Schawerda,1938; mesatlantica Rungs,1940; albertiana Witt,1974.
Peridea graeseri graeseri (Staudinger,1892) graeseri Staudinger,1892; ishidae Matsumura,1909; arnoldi Oberthür,1911
Peridea korbi herculeana (Popescu-Gorj & Capuse,1963) herculeana Popescu-Gorj & Capuse,1963; pinkeriana Witt,1974.
Peridea moltrechti (Oberthür,1911) moltrechti Oberthür,1911; rotundata Matsumura,1920; kotschubeji Sheljuzhko,1926.
Pheosiopsis (Suzukiana) Sugi,1976 Suzukia Matsumura,1920 nec Okamoto,1913; Suzukiana Sugi,1976
Pheosiopsis (Suzukiana) cinerea (Butler,1879) cinerea Butler,1879; suzukii Takeuchi,1916; suzukii Matsumura,1920; ussuriensis Moltrecht,1914 [ssp.]; formosana Okano,1959 [ssp.]; canescens Kiriakoff,1964
Pheosiopsis (Suzukiana) niteria (Schaus,1928) niteria Schaus,1928; diehli Dierl,1976 nec Kir.,1974; dierli Sugi,1992
Phycitimorpha dasychira (Hampson,1910) stigmatica Janse,1920; jansei Kiriakoff,1970
Pseudofentonia (s.str.) argentifera (Moore,1866) argentifera Moore,1866; kezukai Nakamura,1973
Rosama Walker,1855 Rosama Walker,1855; Eguria Matsumura,1924; Yamatoa Kiriakoff,1967
Sarimarais bicolor (Distant,1899) bicolor Distant,1899; verulama Bethune-Baker,1908; pinheyi Kiriakoff,1962
Spatalina Bryk,1949 Spatalina Bryk,1949; Xeropteryx Kiriakoff,1963 nec Butl.,1883; Inouella Kiriakoff,1967; Euxeropteryx Koçak,1980

2016), and dedicated to the late Torben Larsen with the name "*Larsenia"* four years ago. It was a very correct and proper act. However, it was understood that the authors did not show the necessary sensitivity in naming. The genus name *Larsenia* was previously published by Warén (1989: 14) for the Mollusca from Iceland. Torben Larsen did not deserve such a careless attribution. He was a universal scientist and a colleague we all loved. Therefore, we feel responsible for correcting this name (see below).
In respect of the taxonomy, molecular investigations, eco-fauna, bionomy of the Palaeotropical[3] Lepidoptera, the planned studies in relating with the material in the Cesa Collection has partly been published so far (Kemal, 2004, 2008a-c, Kemal & Koçak, 2004, 2005, 2008, 2013, 2019; Kemal, Kızıldağ & Koçak, 2018, 2019a, 2019b, 2019c, 2019d, 2019e, 2019f, 2019g, 2019h, 2020; Kemal, Koçak & Leksawasdi, 2007; Kemal, Leksawasdi & Koçak, 2006; Kemal, Watanasit & Koçak, 2007; Kızıldağ, Kemal & Koçak, 2019; Koçak, 2013; Koçak & Kemal, 2006a-b, 2007a-c, 2008a-b, 2010, 2012a-b, 2014, 2015, 2017a-b, 2020; Leksawasdi, Kemal & Koçak, 2006). The studies are still ongoing, although working and living conditions were very hard during the epidemic period,[4] In more detail, the material of the Collection from South Africa, Ethiopia, and Thailand as well as the Philippines together with the observational information will begin to be studied in the near future.

Present nomenclatural acts

Hesperiidae

Torbenlarsenia nomen novum
http://zoobank.org/NomenclaturalActs/4DCB4727-D8A5-4F36-AB27-67D3D1344416

pro *Larsenia* Chiba, Fan & Sáfián [in] Fan, Chiba, Huang, Fei, Wang & Sáfián, 2016, *PLoS ONE* 11 (7): 10, **nec** *Larsenia* Warén, 1989, *Sarsia* 74: 14 in Mollusca: Vanicoridae.
Type-species: *Hesperia holtzi* Plötz,1883, designated for *Larsenia* Chiba *et al.,* 2016.
Currently, three species are considered under this genus: *Torbenlarsenia holtzi* Plötz **(comb.n.),** *T. gemella* (Mabille) **(comb.n.),** *T. perobscura* (Druce) **(comb.n.)** (ABDB).
Etymology: The new name is dedicated to the late Dr. Torben B. Larsen (1944-2015), for his very important contributions to the World Lepidoptera in the past.
Range: Tropical Africa.

Notodontidae

Catarctia Holland,1892

Catarctia walkeri nomen novum
http://zoobank.org/NomenclaturalActs/AE1263C8-1EEF-4395-A1E3-4C839061A6B9

pro *Arctia ? divisa* Walker,1855, *List of specimens of Lepidopterous Insects in the Collection of the British Museum* 3: 765 **nec** *Arctia divisa* Walker,1855, *List of specimens of Lepidopterous Insects in the Collection of the British Museum* 3: 614-615.

Syntypistis Turner,1907 Syntypistis Turner,1907; Omestia Bethune-Baker,1908; Quadricalcarifera Strand,1916; Egonocia Marumo,1920; Stauropodopsis Roepke,1944; Taiwa Kiriakoff,1967; Vaneeckia Kiriakoff,1968
Syntypistis umbrosa (Matsumura,1927) umbrosa Matsumura,1927; okurai Okano,1960; unicolor Kiriakoff,1974; hasegawai Nakamura,1976
Tarsolepis japonica Wileman & South,1917 japonica Wileman & South,1917; inouei Okano,1958
Tricholoba Hampson,1910 Tricholoba Hampson,1910; Overlaetia Kiriakoff,1954
Trotonotus bettoni Butler,1898 bettoni Butler,1898; oneili Janse,1920

[3] According to Oxford Dictionary, meaning of **Palaeotropical** *in Zoology*: "relating to or denoting a zoogeographical region comprising the tropical parts of the Old World". An example: "For a distribution to be Palaeotropical a taxon must occur in tropical regions on both continents in the Old World, *i.e.* in Africa and Asia." https://www.lexico.com/definition/palaeotropical [access 21 Sept.,2020]
[4] See: Cesa collection: http://entcesa.tripod.com/Cesacollection.pdf

The specific name "*Arctia divisa"* was described by Walker in 1855 two times. The first one, *Arctia divisa* (pages 614-615) is currently considered as a junior synonym of *Spilarctia leopardina* Kollar,1844 (Arctiidae) (Dubatolov *et al.*, 2005). The second one (page 765) is currently a valid name of the genus *Catarctia* (Notodontidae) (Schintlmeister, 2013). Both specific names of *Arctia* are primary homonyms. The junior *divisa* Wlk. in the genus *Catarctia* Holland has no available synonym; therefore a replacement name is needed. Therefore, we proposed here *Catarctia walkeri* **(nom. nov.)** for *Arctia ? divisa* Walker,1855 (page 765) nec *Arctia divisa* Walker,1855 (pages 614-615) (Arctiidae), in accordance with the related Articles of the ICZN.
Etymology: New specific name is dedicated to the original author, Francis Walker (1809-1874), an English Entomologist.
Range: West Africa (Senegal).

Genus ***Saliocleta* Walker,1862**
Subgenus ***Saliocleta* (*Alexanderiana*) nomen novum**
http://zoobank.org/NomenclaturalActs/A5CA29CC-9E6A-41ED-B1A5-70DDA97BD348

pro *Fabula* Schintlmeister [in] Schintlmeister & Pinratana, 2007: 87 **nec** *Fabula* Fibiger, Zilli & Ronkay, 2005: 80 (Noctuidae)
The subgeneric name *Fabula* of the genus *Saliocleta* (Notodontidae) was proposed by Schintlmeister (2007). Unfortunately, the name *Fabula* Schintlmeister,2007 cannot be used as a valid name, as it is junior homonym of *Fabula* Fibiger *et al.*,2005 (Noctuidae). There is no available synonym of *Fabula* Schintlmeister (Schintlmeister, 2013); therefore we propose here a replacement name, subgenus *Alexanderiana* nomen novum for *Fabula* Schintlmeister nec Fibiger *et al.*
Type-species: *Saliocleta fabula* Schintlmeister,1997, by original designation by Schintlmeister for *Fabula*.
Etymology: New subgeneric name is dedicated to the original author, Alexander Schintlmeister (Germany).
Range: Tropical Asia.

References

Dubatolov,V.V., Kishida,Y. & C.Fang, 2005, Review of the subspecies of *Spilarctia leopardina* (Kollar, [1844]) (Lepidoptera, Arctiidae). *Atalanta* 36 (1/2): 180-188.

Fan, X., Chiba, H., Huang, Z., Fei, W., Wang, M. & S. Sáfián, 2016, Clarification of the Phylogenetic Framework of the Tribe Baorini (Lepidoptera: Hesperiidae: Hesperiinae) Inferred from Multiple Gene Sequences. *PLoS ONE* 11 (7): e0156861. doi:10.1371/journal.pone.0156861

Kemal,M., 2004, On the butterflies of the Soutpansberg Mountains (South Africa) (Lepidoptera). *Misc. Pap*. 88/89: 1-13.

Kemal,M., 2008a, Illustrations concerning the activities in 2005 on research and education in Chiang Mai University North Thailand. Part I - Queen Sirikit Botanic Garden (Chiang Mai Thailand) (QSBG). *Cesa News* 3: 13-16, 8 figs.

Kemal,M., 2008b, Illustrations concerning the activities in 2005 on research and education in Chiang Mai University North Thailand. Part II - Chiang Mai University Campus and Educational Activities (Chiang Mai Thailand). *Cesa News* 4: 1-12, 23 figs.

Kemal,M., 2008c, Information about the scientific activities of the Cesa in Africa. A short note on the studies of the Lepidoptera on the Soutpansberg Mountains (Limpopo, South Africa). *Cesa News* 6: 1-12, 60 figs.

Kemal,M. & A.Ö.Koçak, 2004, Pyralidae Araştırmaları Hakkında (Lepidoptera). *Misc. Pap*. 88/89: 14-15.

Kemal,M. & A.Ö.Koçak, 2005, Butterflies of Medike (Soutpansberg Mountains, South Africa) with some notes on spring butterflies (Lepidoptera). Misc. Pap. 91/92: 1-9, 1 Tab.

Kemal,M. & A.Ö.Koçak, 2008, First attempt for a list of the patronyms in the Lepidopterology based upon the Info-System of the Cesa. *Priamus Suppl.* 12: 1-89, fig.

Kemal,M. & A.Ö. Koçak, 2013, A proposal of replacement name in the family *Danaidae* (Lepidoptera). *Misc. Pap*. 159: 7.

Kemal,M. & A.Ö.Koçak, 2019, Taxonomical notes on two species of the Philippines (Lepidoptera, Geometridae). *Misc. Pap*. 185: 1-2.

Kemal,M., Kızıldağ,S. & A.Ö.Koçak, 2018, A preliminary list of the moth species of Mindanao Island (Philippines), in the Cesa Collection, with some remarks (Lepidoptera). *Cesa News* 160: 1-15, 29 figs.

Kemal,M., Kızıldağ,S. & A.Ö.Koçak, 2019a, Some Heterocera of Bohol Island (Philippines), a preliminary list of the species in the Cesa collection with faunistical notes. *Misc. Pap*. 182: 1-20, 51 figs.

Kemal,M., Kızıldağ,S. & A.Ö.Koçak, 2019b, The Pistachio Fruit Hull Borer Moth, a new species and pest for the Lepidoptera fauna of North Pakistan. *Misc. Pap*. 183: 1-4, 6 figs., 1 map.

Kemal,M., Kızıldağ,S. & A.Ö.Koçak, 2019c, On the Heterocera of Mt. Caragan (Philippines, Mindanao), with some remarks. *Misc. Pap*. 190: 1-50, 76 figs, 5 maps

Kemal,M., Kızıldağ,S. & A.Ö.Koçak, 2019d, On the small Heterocera collection from Palawan Island (Philippines), with some remarks. *Misc. Pap*. 191: 1-26, 52 figs.

Kemal,M., Kızıldağ,S. & A.Ö.Koçak, 2019e, On the small Heterocera collection from Mt. Matutum (S. Cotabato, Mindanao Is., Philippines), with remarks and synonymic list of the species from the island. *Misc. Pap*. 192: 1-29, 1 fig.

Kemal,M., Kızıldağ,S. & A.Ö.Koçak, 2019f, Additional notes on the Heterocera fauna of Mt. Pulaq (Luzon, Philippines). *Misc. Pap*. 200: 1-10, 24 figs, 1 map

Kemal,M., Kızıldağ,S. & A.Ö.Koçak, 2019g, Annotated list of the Heterocera (Lepidoptera) of Mount Pulaq (Luzon Island, Philippines). *Priamus* 18 (1): 1-29, 51 figs. 1 map

Kemal,M., Kızıldağ,S. & A.Ö.Koçak, 2019h, Further notes on the Heterocera (Lepidoptera) of the Philippines, with a description of a new species. *Priamus* 18 (2): 31-128, 128 figs. 1 Table.

Kemal,M., Kızıldağ,S. & A.Ö.Koçak, 2020, On the nomenclature of a generic name in the Phycitinae of East Asia (Lepidoptera, Pyraloidea). *Misc. Pap*. 205: 1-2.

Kemal,M., Koçak,A.Ö. & P.Leksawasdi, 2007, On the occurence of Psychothoe duvauceli (Bsd.) in North Thailand (Ctenuchidae, Lepidoptera). Cent. ent. Stud., Misc. Pap. 105: 1-3, 3 figs.

Kemal,M., Leksawasdi,P. & A.Ö.Koçak, 2006, Wittstrotia flavannamica Behounek & Speidel in Thailand (Noctuidae, Lepidoptera). *Misc. Pap*. 99: 5-6.

Kemal,M., Watanasit,S. & A.Ö.Koçak, 2007, Annotated List of the species of Lepidoptera recorded in Southernmost Provinces of Thailand. *Priamus* 12 (3): 63-93, 1 map, 3 pls (22 figs).

Kızıldağ,S. & M. Kemal & A.Ö.Koçak, 2019, On the evaluations of some populations of *Axylia* in SE Asia (Lepidoptera, Noctuidae). *Misc. Pap*. 194: 7-8, 1 fig. 1 tab.

Koçak,A.Ö., 2013. Nomenclatural notes in the family *Lasiocampidae* (*Lepidoptera*). *Misc.Pap*. 160: 1-5.

Koçak,A.Ö. & M.Kemal, 2006a, Proposal of a replacement name in the Lasiocampidae (Lepidoptera). *Misc. Pap*. 99: 7-8.

Koçak,A.Ö. & M.Kemal, 2006b, Checklist of the family Notodontidae in Thailand (Lepidoptera). *Misc. Pap*. 104: 1-8.

Koçak,A.Ö. & M.Kemal, 2007a, Chapter 6: Results of the researches on the animal-plant interaction: Food-plants of the Lepidoptera (FL), [in] Koçak,A.Ö. & M.Kemal, Results of the International Project of the CESA on the Lepidoptera of the World-I. Cent. ent. Stud., *Memoirs* 3-4: 1589-1644, figs.

Koçak,A.Ö. & M.Kemal, 2007b, Chapter 7: Illustrated list of the Lepidoptera recorded in the Transvaal (South Africa), [in] Koçak,A.Ö. & M.Kemal, Results of the International Project of the CESA on the Lepidoptera of the World-I. Cent. ent. Stud., *Memoirs* 3-4: 1645-1684, figs.

Koçak,A.Ö. & M.Kemal, 2007c, Chapter 15: Illustrated list of the Lepidoptera recorded in the Philippines, [in] Koçak,A.Ö. & M.Kemal, Results of the International Project of the CESA on the Lepidoptera of the World-I. Cent. ent. Stud., *Memoirs* 3-4: 1849-1918, figs.

Koçak,A.Ö. & M.Kemal, 2008a, Diversity of the Lepidoptera in the World (DLW), A project supported by the Cesa. *Cesa News* 2: 1-9.

Koçak,A.Ö. & M.Kemal, 2008b, Josefrazowskia nom. nov. in Afrotropical Tortricidae (Lepidoptera). *Misc. Pap*. 138: 9.
Koçak,A.Ö. & M.Kemal, 2010, *Lepidoptera* of Thailand. *Cesa News* 60: 1-184, 37 figs.
Koçak,A.Ö. & M. Kemal, 2012a, Revised list of the scientific names referring to the persons based upon the info-system of the Cesa 1- Lepidoptera. *Cesa News* 84: 15-120.
Koçak,A.Ö. & M.Kemal, 2012b, Preliminary Synonymical and Distributional Checklist of African Lepidoptera. Cent. Ent. Stud., *Memoirs* 5: 1-975, 5 figs.
Koçak,A.Ö. & M.Kemal, 2014, *Lepidoptera* of Pakistan based upon the Info-system of the Cesa II-Preliminary annotated checklist of the species recorded in Pakistan. *Cesa News* 96: 1-160, 12 plates.
Koçak,A.Ö. & M.Kemal, 2017a, Geographical codes used in the publications of the Cesa. *Cesa News* 135: 1-40.
Koçak,A.Ö. & M.Kemal, 2017b, First list of the scientific names referring to the geographical entities based upon the info-system of the Cesa II. Lepidoptera. *Cesa News* 136: 1-65.
Koçak,A.Ö. & M.Kemal, 2015, Annotated list of the lepidopterological taxa in the info-system of the Cesa - Part I. Cent. ent. Stud., *Memoirs* 7: 1-4792, 1 Tab.
Koçak,A.Ö. & M. Kemal, 2020. Preliminary list of the Heterocera species of Africa continent based upon the info-system of the Cesa, with a new name in Pyraloidea (Lepidoptera). Cent. ent. Stud., *Memoirs* 9: 1-804, 20 maps.
Leksawasdi,P. Kemal,M. & A.Ö.Koçak, 2006, List of the species in the Insect Collection of the Chiang Mai University (Thailand) I. Lepidoptera, Sphingidae. *Misc. Pap*. 95: 1-7.
Schintlmeister, A. & A. Pinratana, 2007. Moths of Thailand vol. five. Notodontidae. Brothers of St. Gabriel in Thailand, Bangkok.
Schintlmeister,A. & **T. Witt,** 2015. *The Notodontidae of South Africa including Swaziland and Lesotho (Lepidoptera, Notodontidae)*. Proceedings Museum Witt München 2: 1-289.
Schintlmeister,A., 2013. *World Catalogue of Insects volume 11. Notodontidae & Oenosandridae (Lepidoptera)*. Brill, Leiden & Boston.
Walker,F., 1855. *List of specimens of Lepidopterous Insects in the Collection of the British Museum* 3: 583-775.
Warén,A., 1989. New and little known Mollusca from Iceland. *Sarsia* 74: 1-28.

Internet Sources

ABDB. African Butterfly Database https: www.abdb-africa.org [last access: 20 Sept.,2020].

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